

## Marketing Consultant Copy Only AD IN COMPLETE STATUS

Attention: Bh Circ Nie/pie  
Ad Number: F45157  
Description: Etct  
Size: 6 x 10.5"

Sales Rep: Blank #1  
Last User: Julie Beacham-Hooie  
Date: Tue, Dec 18, 2007 - 4:10 PM

Proofread by: \_\_\_\_\_

Insertion Date: Thu, Dec 20, 2007  
Publication: Local

# Education Today / Career Tomorrow

BROUGHT TO YOU BY MANATEE TECHNICAL INSTITUTE AND NEWSPAPERS IN EDUCATION



## Welding

Welding is the most common way of permanently joining metal parts. In this process, heat is applied to metal pieces, melting and fusing them to form a permanent bond. Because of its strength, welding is used in thousands of manufacturing activities. Welding is also used to join beams when constructing buildings, bridges, and other structures, and to join pipes.

Welders use many types of welding equipment. They may perform manual welding, in which the work is

entirely controlled by the welder, or semiautomatic welding, in which the welder uses machinery. There are about 100 different types of welding. Arc welding is the most common type. Standard arc welding involves two large metal alligator clips that carry a strong electrical current. When the rod touches the workpiece, a powerful electrical circuit is created. The massive heat created by the electrical current causes both the workpiece and the steel core of the rod to melt together,

cooling quickly to form a solid bond. Welding speed is important. Skilled welding workers generally plan work from drawings or specifications to analyze the parts to be joined. They select and set up welding equipment, execute the planned welds, and examine welds to ensure that they meet specifications. Source: *The Occupational Handbook*

## Job Outlook

Employment of welding workers should be excellent, as employers report difficulty finding enough qualified people. In addition, openings are expected to arise as a large number of workers retire over the decade. Almost every manufacturing industry uses welding at some stage. The construction industry is expected to have solid growth over the next decade, increasing demand for welders. Improvements in technology have also boosted welding productivity.

## Money Matters

**Career:** Welding

**Job Description:** Joins, fabricates, and repairs metal and other weldable material by applying appropriate welding techniques. Has knowledge of commonly-used concepts, practices, and procedures within a particular field. Relies on instructions and pre-established guidelines to perform the functions of the job. Works under immediate supervision.

**Salary:** \$24,092-\$55,340 annually

For more information on how to start your career in Welding, please contact: Career Counselor Terri Parrish (941) 751-7900 ext. 2018  
parrishm@manateeschools.net

## Education Needed

Training for welding workers can range from a few weeks of school or on-the-job training for low-skilled positions to several years of combined school and on-the-job training for highly skilled jobs. Formal training is available in high schools, vocational schools, and postsecondary institutions, such as vocational-technical institutes, community colleges, and private welding schools.

Courses in blueprint reading, shop mathematics, mechanical drawing, physics, chemistry, and metallurgy are helpful. An understanding of electricity is also very helpful and knowledge of computers is gaining importance, especially for welding machine operators.

Welding workers need good eyesight, hand-eye coordination, and manual dexterity. They should be able to concentrate on detailed work for long periods and be able to bend, stoop, and work in awkward positions. In addition, welders increasingly need to be willing to receive training and perform tasks in other production jobs.

Welders can advance to more skilled welding jobs with additional training and experience. For example, they may become welding technicians, supervisors, inspectors, or instructors. Some experienced welders open their own repair shops.



*It's a  
Matter of  
Perspective*



**Teacher-** "Our program here at Manatee Technical Institute has an extremely high enrollment. Employers call all the time asking for our graduates to work for them, so our placement rate is excellent. Currently, the job market is very strong for welders. Right now in class we are preparing for SkillsUSA, which is coming up in December. We are working hard and we are ready to compete!"  
Alan Angel

**Student -** "I got into the welding program at Manatee Technical Institute because I plan on opening my own business building race cars. My dream is to race pro-stock drag. I also want to be able to build the racecar chasses myself. What I am learning right now in the welding program will absolutely prepare me for owning and operating my own business. I will have the skills to make it happen."  
Kyle Danke

Teacher

Student

THIS EDUCATIONAL PARTNERSHIP SPONSORED BY



Main Campus  
5603 34th Street West  
(941) 751-7900



East Campus  
5520 Lakewood Ranch Blvd.  
(941) 752-8100



The Education Today/Career Tomorrow page is published every Thursday in The Bradenton Herald. Provided by Newspaper in Education Brandy Braver, Newspaper in Education Coordinator (941) 748-0411 ext. 5031. E-mail: bbraver@bradenton.com and Julie Beacham-Hooie, Page Editor